



Kiln Drying Workshop

January 10-13, 2011
SUNY-ESF
Syracuse, NY

- As the economy improves, are you ready to supply the market with the best quality kiln dried lumber?
- Do you want to better control your drying and quality cost?
- Can you improve and better manage your drying and lumber handling options?

Kiln Drying Workshop

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This workshop will provide practical knowledge about how wood is effectively kiln dried and the scientific background to related wood properties and drying processes. The instruction and topics will be of interest and great value for novice and experienced kiln operators, as well as yard, sales, purchasing, marketing, and manufacturing managers. University professors and various industry experts will instruct in the classroom and through hands-on lab exercises using our modern kiln.

This workshop is sponsored by the State University of New York College of Environmental Science and Forestry, in cooperation with the New England Kiln Drying Association



Please call the ESF Outreach Office at 315/470-6891, 6888 or 6817, check the workshop website at www.esf.edu/outreach/kiln or contact Bill Smith at 315/470-6832 or wbsmith@esf.edu with questions.

Registration

2011 Kiln Drying Workshop

[Online Registration](#)

Workshop fee:

- \$445 per person for registrations received by December 22
- \$495 per person for registrations received after December 22
- If you are registering more than one person from the same organization, the rate is \$445 for the first person and \$425 for each subsequent registration.

Registration includes: breakfast, lunch, afternoon break, dinner on Monday, parking, and workshop materials. Your registration will be processed immediately and securely. We accept MasterCard or Visa, purchase order or voucher, or a check payable to SUNY Research Foundation.



Agenda

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Monday, January 10	
9:00 a.m.	Check-in and Continental Breakfast
9:30	Wood and Drying Fundamentals <ul style="list-style-type: none"> • Importance of Kiln Drying • Wood-Water Relations • Wood Structure, Anatomy and Properties • Moisture Determination
12:00 p.m.	Lunch
1:00	Wood and Drying Fundamentals <ul style="list-style-type: none"> • Moisture Meters and Their Effective Use • Wood Shrinkage • Drying Degradation • Kiln Drying Specifications • Lab Exercise - Kiln Operation
5:00	Dinner (Dinosaur BBQ)
Tuesday, January 11	
8:00 a.m.	Continental Breakfast
8:15	Managing Drying Operations <ul style="list-style-type: none"> • Managing Wood Drying Operations • Air and Predrying • Kiln Instrumentation • Controlling Kiln Operation
12:00 p.m.	Lunch
1:00	Managing Drying Operations <ul style="list-style-type: none"> • Steam Basics and Utilization • Kiln Types - Steam, Dehumidification, Direct Fire, Vacuum • Preparation for Drying • Lab Exercise - Kiln Operation
5:00	Dinner on your own
Wednesday, January 12	
8:00 a.m.	Continental Breakfast
8:15	Drying Kiln Operation and Maintenance <ul style="list-style-type: none"> • Kiln Schedules: Use and Modification • Kiln Start-Up Procedures • Dry Kiln Operation - Controllers, Mechanical Components, and Maintenance • Dehumidification Kiln Drying
12:00 p.m.	Lunch
1:00	Drying Kiln Operation and Maintenance <ul style="list-style-type: none"> • Safety and Health Issues • Lumber Stacking and Kiln Loading • Drying Maple and White Woods • Drying Oak and Related Hardwoods • Drying Pine • Lab Exercise - Kiln Operation, Sample Monitoring, Schedule Modification
5:00	Dinner on your own
Thursday, January 13	
8:00	Continental Breakfast
8:15	Lumber Quality <ul style="list-style-type: none"> • Equalizing • Drying Stress Development and Conditioning • Wood Decay, Fungi, Stain and Mold • Effect of Air Velocity on Drying • Control of Warp, Checking, Splitting, Honeycomb
12:00 p.m.	Lunch
1:00	Lumber Quality <ul style="list-style-type: none"> • Statistical Process Control - Kiln, Lumber and Moisture Sampling • Lumber Storage and Moisture Control • Redrying Wetted Lumber • Conserving Energy in Kiln Operations • Wood Resource Issues
3:30	Course concludes